

217/782-2113

CONSTRUCTION PERMIT - NSPS SOURCE
- REVISED -

PERMITTEE

Callaghan Paving
Attn: Carmen LaPorte
7000 Frontage Road
Burr Ridge, Illinois 60521

Application No.: 01060085 I.D. No.: 089020ABL
Applicant's Designation: ASPHALT PLANT Date Received: February 3, 2004
Subject: Asphalt Plant
Date Issued: February 13, 2004
Location: Boly Road and Oxford Road, Carpentersville

Permit is hereby granted to the above-designated Permittee to CONSTRUCT emission source(s) and/or air pollution control equipment consisting of a gas fired drum mix asphalt plant with baghouse and 3 asphalt storage tanks (30,000-gallon, each) as described in the above-referenced application. This Permit is subject to standard conditions attached hereto and the following special condition(s):

- 1a. These conditions effectively limit the potential emissions of air pollutants from the source to less than major source thresholds (i.e., carbon (CO) to less than 100 tons per year and volatile organic material to less than 25 tons per year). As a result, the source is excluded from the requirements to obtain a Clean Air Act Permit Program (CAAPP) permit.
- b. The emissions of Hazardous Air Pollutants (HAP) as listed in Section 112(b) of the Clean Air Act shall be less than 10 tons/year of any single HAP and 25 tons/year of any combination of such HAPs. As a result of this condition, this permit is issued based on the emissions of all HAPs from this source not triggering the requirements to obtain a Clean Air Act Permit Program Permit (CAAPP), and Section 112(G) of the Clean Air Act.
- 2a. This asphalt plant is subject to New Source Performance Standards (NSPS), 40 CFR 60, Subparts A and I. The Illinois EPA is administering these standards in Illinois on behalf of the United States EPA under a delegation agreement.
- b. The emissions from the asphalt plant shall not contain particulate matter in excess of 0.04 gr/dscf and shall not exhibit 20% opacity or greater, pursuant to the NSPS, 40 CFR 60.92.
- c. At all times the Permittee shall also maintain and operate the asphalt plant, including associated air pollution control equipment, in a manner consistent with good air pollution control practice for minimizing emissions, pursuant to the NSPS, 40 CFR 60.11(d).

3. No person shall cause or allow any visible emissions of fugitive particulate matter from any process, including any material handling or storage activity beyond the property line of the source except when the wind speed is in excess of 25 miles per hour, pursuant to 35 Ill. Adm. Code 212.301 and 212.314.
- 4a. The 3 asphalt storage tank(s) are subject to New Source Performance Standards (NSPS), 40 CFR 60 Subpart Kb. The Illinois EPA is administering these standards in Illinois on behalf of the United States EPA under a delegation agreement.
- b. At all times, the Permittee shall, to the extent practicable, maintain and operate these tanks, in a manner consistent with good air pollution control practice for minimizing emissions, pursuant to the New Source Performance Standard.
- c. The Permittee shall fulfill the monitoring of operations requirements of the New Source Performance Standards, 40 CFR 60.116b(a) and (b) for the 3 asphalt storage tanks. That is, records showing the dimensions of the storage vessel and an analysis showing the capacity of the storage vessel, shall be maintained and readily accessible for the life of the source.
5. Emissions and operation of gas fired drum mix asphalt plant shall not exceed the following limits:

<u>Equipment</u>	<u>Asphalt Production</u>		<u>Pollutant</u>	<u>Emission</u>	<u>Emissions</u>	
	<u>(Ton/Mo)</u>	<u>(Ton/Yr)</u>		<u>Factor</u> <u>(Lb/Ton)</u>	<u>(Lb/Mo)</u>	<u>(Ton/Yr)</u>
Gas Fired Drum- Mix Asphalt Plant	70,000	675,000	TSP	0.033	2310.0	11.14
			CO	0.13	9100.0	43.88
			NO _x	0.026	1820.0	8.78
			SO ₂	0.0034	238.0	1.15
			VOM	0.032	2240.0	10.80

These limits are based on standard AP-42 emission factors, natural gas as the only fuel fired, and a maximum hourly capacity of 500 tons/hour. Compliance with annual limits shall be determined from a running total of 12 months of data.

6. This permit is issued based on negligible emissions of volatile organic material (VOM) from the 3 asphalt storage tanks. For this purpose emissions from each emission source, shall not exceed nominal emission rates of 0.1 lb/hour and 0.44 ton/yr.
- 7a. The gas fired drum mix asphalt plant may be operated for an additional period of 270 days from the date of issuance, under this revised construction permit.

- b. Operation shall not begin until all associated air pollution control equipment has been constructed and is operational.
 - c. The Permittee shall furnish the Illinois EPA written notification as follows pursuant to 40 CFR 60.7(a):
 - i. A notification of anticipated date of initial start-up at least 5 days prior to such date,
 - ii. A notification of actual date of initial start-up within 15 days after such date.
- 8a. Within 60 days after achieving the maximum production rate at which the plant will be operated but not later than 180 days after initial startup, the particulate matter concentration(s) in its effluent stream shall be measured by an approved independent testing service. During these tests, observations to determine opacity of the effluent stream shall also be conducted.
- b. This testing shall be conducted and data collected in accordance with the test methods and procedures specified in 40 CFR 60.8, 60.11 and 60.93.
 - c. At least 60 days prior to the actual date of testing, the Permittee shall submit a written test plan to the Illinois EPA for review and approval. This plan shall include as a minimum:
 - i. The name (or other identification) of the emission unit(s) to be tested and the name and address of the facility at which they are located;
 - ii. The name and address of the independent testing service(s) performing the tests, with the names of the individuals who may be performing sampling and analysis and their experience with similar tests;
 - iii. The specific determinations of emissions and/or performance which are intended to be made, including the site(s) in the ductwork or stack at which sampling will occur;
 - iv. The specific conditions under which testing will be performed, including a discussion of why these conditions will be representative of maximum emissions and minimum control performance, the values of operating parameters for the emission unit, including associated control equipment, at or within which compliance is intended to be shown, and the means by which compliance is intended to be shown, and the means by which the operating parameters will be determined;
 - v. The procedures which will be used for testing, including the test method(s), with the specific analysis method, if the method can be used with different analysis methods, the specific sampling

and analytical procedures, and the calibration and other quality control procedures;

- vii. A description and justification for any minor changes in standard testing methods and procedures proposed to accommodate the specific circumstances of test and for any proposed use of an alternative test method.
- d.
 - i. The Permittee shall provide the Illinois EPA with written notification of testing at least thirty (30) days prior to testing to enable the Illinois EPA to have an observer present. This notification shall include the name of emission unit(s) to be tested, scheduled date and time, and contact person with telephone number.
 - ii. If testing is delayed, the Permittee shall promptly notify the Illinois EPA by facsimile, at least 5 days prior to the scheduled date of testing or immediately, if the delay occurs in the 5 days prior to the scheduled date. This notification shall also include the new date and time for testing, if set, or a separate notification shall be sent with this information when it is set.
- e. The Permittee shall submit the Test Report for this testing, accompanied by a cover letter stating whether or not compliance was shown, to the Illinois EPA without delay, within 30 days after the results are compiled, but no later than sixty (60) days after the date of testing or sampling. The Test Report shall include as a minimum:
 - i. General information describing the test, including the name and identification of the emission source which was tested, date of test, names of personnel performing the tests, and Illinois EPA observers, if any;
 - ii. A summary of results;
 - iii. Description of test procedures, including description of sampling points, test equipment, and test schedule;
 - iv. Detailed description of test conditions, including:
 - 1. Process information, i.e., process rate, aggregate type, fuel type, and firing rate.
 - 2. Control equipment information, i.e., equipment condition and operating parameters during testing.
 - v. Data and calculations, including copies of all raw data sheets and records of laboratory analyses, sample calculations, and data on equipment calibration.
- 9. The Permittee shall maintain an operating and maintenance log for the dryer control system, including:

- a. Incidents of malfunction, with date, duration, description, probable cause, and corrective actions, pursuant to 40 CFR 60.7(b), and
- b. Maintenance activities, with date and description of inspections, repair actions, and equipment replacements, etc.

This log shall be available for inspection and copying by the Illinois EPA.

10. The Permittee shall maintain records of the following items:
 - a. Asphalt concrete production (ton/month and ton/year); and
 - b. Natural gas usage (mmscf/month and mmscf/year).
11. All records and logs required by this permit shall be retained at a readily accessible location at the source for at least three years from the date of entry and shall be made available for inspection and copying by the Illinois EPA upon request. Any records retained in an electronic format (e.g., computer) shall be capable of being retrieved and printed on paper during normal source office hours so as to be able to respond to an Illinois EPA request for records during the course of a source inspection.
12. If there is an exceedance of the requirements of this permit as determined by the records required by this permit, the Permittee shall submit a report to the Illinois EPA's Compliance Section in Springfield, Illinois within 30 days after the exceedance. The report shall include the emissions released in accordance with the recordkeeping requirements, a copy of the relevant records, and a description of the exceedance or violation and efforts to reduce emissions and future occurrences.
13. Two (2) copies of required reports and notifications concerning equipment operation or repairs, performance testing or a continuous monitoring system shall be sent to:

Illinois Environmental Protection Agency
Division of Air Pollution Control
Compliance Section (#40)
P.O. Box 19276
Springfield, Illinois 62794-9276

and one (1) copy shall be sent to the Illinois EPA's regional office at the following address unless otherwise indicated:

Illinois Environmental Protection Agency
Division of Air Pollution Control
9511 West Harrison
Des Plaines, Illinois 60016

- 14a. This Permit will expire on the day operation ceases at this location if this plant is moved to a new location, or otherwise on the date specified above.
 - b. The transportation and reassembly of a portable plant at a new location requires a new construction and operating permit pursuant to 35 Ill. Adm. Code 201.142 and 201.143. This permit must be obtained prior to reassembling the plant at the new location.
 - c. The Illinois EPA is to be notified, in writing, within five (5) days of any relocation of the moveable processing equipment, covered by this permit, to another permitted location.
15. In the event that the operation of this source results in an odor nuisance the Permittee shall take appropriate and necessary actions to minimize odors, including but not limited to, changes in raw material or installation of controls, in order to eliminate the odor nuisance.

Please note that this permit has been revised to grant an additional 270 days of operation for stack testing.

If you have any questions on this permit, please call Eric Jones at 217/782-2113.

Donald E. Sutton, P.E.
Manager, Permit Section
Division of Air Pollution Control

DES:EEJ:psj

cc: Illinois EPA, FOS Region 1
USEPA